



Table VII

Table VII: Class V ribozymes

Synth No.	RPI No.	Seq. ID No.	Ribozyme
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Table VII

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U, C = 2'-deoxy-2'-fluoro Uridine, Cytidine

U, C = 2'-deoxy Uridine, Cytidine

U, C = 2'-deoxy-2'-amino Uridine, Cytidine

UPPER CASE = RIBO

lower case = 2'-O-Methyl

S = phosphorothioate linkage

S2 = phosphorodithioate linkage

B = 3',3'-inverted deoxyabasic moiety

Table VIII**Class I**

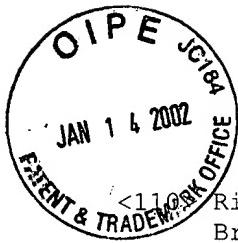
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5	U...U...C.....	G.....A.....			(SEQ ID NO 86)
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12C.....	A.....U..U			(SEQ ID NO 92)
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Breaker, Ronald
Beigelman, Leo

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<400> 71
ggcgauaagu gagaacacug ggucggaggg auagcuaggu 40

<210> 72
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 72
ggcgauaggu gaguacacug ggucggaggg aaagcuaggu 40

<210> 73
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 73
ggcgauagau ggguacacug ggucggaggg auaggaggu 40

<210> 74
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 74
ggcgauaagu gagaacacug ggucggaggg auagcuaggu 40

<210> 75
<211> 40
<212> RNA
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<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 75
ggcgauaggu gaauacacug ggucggaggg auagcuaaca 40

<210> 76
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 76
ggcgauaggu gagugcacug ggucggaggg auugcuaguc 40

<210> 77
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 77
ggcgauaggu gaauacacug ggucggaggg acggcuaggc 40

<210> 78
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 78
ggcgauaggu gaguacacug ggucggaggg auagcguggu 40

<210> 79
<211> 40
<212> RNA
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<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 79
ggcgacaggu guuuacacug ggucggaggg auagcuaagc 40

<210> 80
<211> 40
<212> RNA
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<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 80
ggcgauaggu guguacacug ggucggaggg auagcuagcu 40

<210> 81
<211> 40
<212> RNA
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<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 81
ggcgauaggu gaguacacug ggucggaggg auaucgaggu 40

<210> 82
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 82
ggcgauaggu gaguacacug ggucggaggg guaggaagau 40

<210> 83
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 83
ggcucguggg gagugagaua acgugaagau cuagggcggg gga 43

<210> 84
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 84
ggcucgugcg gagugagaua acgugaagau cuagggcugg gga 43

<210> 85

<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 85
ggcucguugg gggugagaua acgugaagau cuagggcggg uga 43

<210> 86
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 86
ugcuugugcg gagugagaua acgugaagau cgagggcagg gga 43

<210> 87
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 87
ggcucgugcg gaguaagaua acgugaagau cacggcggu gca 43

<210> 88
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 88
ggcugguugg gagugagaua acgugaagau cuagggcggg uga 43

<210> 89
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 89
ggcucgcggg gagugagaua acgugaagau cuagggcggu gga 43

<210> 90
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 90
gacucguggg gaguaagaua acgugaagau cuugggcugg uga 43

<210> 91
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 91
ggcuguuuug gagugagaua acgugaagau cuaggcgcg cga 43

<210> 92
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 92
ggcucguggc gagugagaua acgugaagau auaggcggu ggu 43

<210> 93
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 93
ggcucguggg gaguaagaua acgugaagau cuagguggc gga 43

<210> 94
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 94
ggcucguggg gagugagaua acgugaagau cuaggacugu agg 43

<210> 95
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 95
gacucguggg gagugagaua acgugaagau cuagggcgcg gua 43

<210> 96
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 96
ggcucguggg gagugagaua acgugaagau cuagggcgccc cga 43

<210> 97
<211> 15
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 97
agauaacgug aagau 15

<210> 98
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 98
aauggccuau cgugcga 18

<210> 99
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Nucleic Acid Primer
 <400> 99
 gaaataaaact cgcttggagt aaccatcagg acagcgaccg ta 42

<210> 100
 <211> 90
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Nucleic Acid Template
 <220>
 <221> misc_feature
 <222> (35)..(74)
 <223> n stands for any a, c, g, or u

<400> 100
 tctaatacga ctcactatacg gaagacgttag ccaannnnnn nnnnnnnnnnn nnnnnnnnnnnn 60
 nnnnnnnnnnnn nnnntacggt cgctgtcctg 90

<210> 101
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Nucleic Acid Primer
 <400> 101
 gaattctaat acgactcact ataggaagac gtagccaa 38

<210> 102
 <211> 97
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Enzymatic Nucleic Acid
 <220>
 <221> misc_feature
 <222> (16)..(55)
 <223> n stands for any a, c, g, or u

<400> 102
 ggaagacgua gccaannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnuacgg 60
 ucgcuguccu gaugguuacu ccaagcgagu uuauuug 97

<210> 103
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Nucleic Acid Substrate

<400> 103
guccugaugg uuacuccaag c

21

<210> 104
<211> 46
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 104
gguagccaag ugcaaugcac uugagaacug uaaguuguau uaggc

46

<210> 105
<211> 44
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 105
gguagccaag gcgauuaagug aguacacugg gucggaggga uagc

44

<210> 106
<211> 45
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 106
gguagccaag ggcgcuggcac aagcguugcu gaucggaagg gacag

45

<210> 107
<211> 29
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 107
gguagccaaau ggccuaucgg ugcgaggac 29

<210> 108
<211> 28
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 108
ggaguaagau aacgugaaga ucuaggac 28

<210> 109
<211> 61
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 109
ggaguagcau ccccugagau gggguagag cgaauacggu cgcuguccug augguuacuc 60

c 61

<210> 110
<211> 13
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 110
cuuguggcgc guc 13

<210> 111
<211> 49
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 111
ggaagacqua gccaaaggugc ugccccggagagu guguuaggca cuguaggac 49

<210> 112
<211> 37
<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 112

ggcuuggagc ugaagaggaa ucaaaccgaa aaacuac

37

<210> 113

<211> 50

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 113

ggaagacacg uagccaaaca guaggcuaug gagaucggaa aagagcggau

50

<210> 114

<211> 30

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 114

gcuuggagcc ggugggugca uagucaggac

30

<210> 115

<211> 35

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 115

ggcuuggagu guggcgauuc agaucggagu uggac

35

<210> 116

<211> 17

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 116

gaugguuacu ccaagcgt

17

<210> 117
<211> 39
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 117
ggaguaacct uucgcgagag ccuuaaggcug uaucaggac

39

<210> 118
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Nucleic Acid Substrate

<400> 118
agacgaaugg ucagacg

17

<210> 119
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Nucleic Acid Substrate

<400> 119
cacguuaugg cucaacg

17

<210> 120
<211> 27
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 120
caaugugaaau ugagagccuu aagcugu

27

<210> 121
<211> 47
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 121

ggagacguag ccaaggucug cgagagugu guuaggcacu guaggac

47

<210> 122
<211> 30
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 122
gcuuggagcu gaggagaugu ucgaaaacca 30

<210> 123
<211> 96
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 123
ggaagacgua gccaauguga auugagagcc uuaagcugua ucagagagug uacauacggu 60
cgcuguccug augguuacuc caagcgaguu uauuug 96

<210> 124
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<400> 124
ggaguagcca augugauuug agagccuuua gcuguaucag gac 43

<210> 125
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Nucleic Acid Substrate

<400> 125
guccuguaugg uuacucc 17

<210> 126
<211> 27
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Enzymatic Nucleic Acid

<220>
<221> misc_feature
<222> (1)..(6)
<223> 2'-O-Methyl

<220>
<221> misc_feature
<222> (21)..(27)
<223> 2'-O-Methyl

<400> 126
ggaguaagau aacgugaaga ucaggac

27